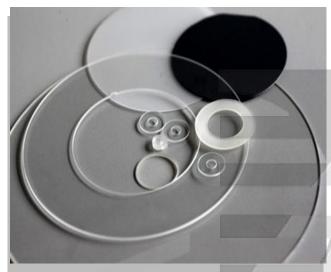


## We are committed to the supply of all types of substrate wafers to the microelectronics industry

### Series Glass & Fused Quartz/Silica wafers

**CQT** uses a variety of glass and quartz depending on the application and material requirements. Our designers and engineers are skilled at working with any number of glass and quartz materials to machine and fabricate precision optical products such as fused quartz parts for optics, fused silica parts used in fiber optic applications, and borosilicate glass parts found in semi-conductor manufacturing.





The general specs are as follows sheet, if your specified is not included with it, you may freely tell us and we' Il pleased to customize them for you.

spec	unit	4"	6"	8"	10"	12"
Diameter/size(or square)	mm	100	150	200	250	300
Tolerance (±)	mm	0.2	0.2	0.2	0.2	0.2
Thickness	mm	0.10 or more	0.30 or more	0.40 or more	0.50 or more	0.50 or more
Primary reference flat	mm	32.5	57.5	Semi-notch	Semi-notch	Semi-notch
LTV (5mmx5mm)	μm	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TTV	μm	< 2	< 3	<3	<5	<5
Bow	μm	±20	±30	±40	±40	±40
Warp	μm	≤ 30	≤ 40	≤ 50	≤ 50	≤ 50
PLTV(5mm*5mm)<0.4um	%	≥95%	≥95%	≥95%	≥95%	≥95%
Edge Rounding	mm	Compliant with SEMI M1.2 Standard/refer to IEC62276				
Surface Type		Single Side Polished /Double Sides Polished				
Polished side Ra	nm	≤1				
Back Side Criteria	μm	general 0.2-0.7 or customized				

### HANGZHOU FREQCONTROL ELECTRONIC TECHNOLOGY LTD.

Head office: #1106, Crystal International Business Center(CIBC), No.198 Wuxing Rd ,Qianjiang new city Hangzhou, P.R.China Post code: 310006 TEL: 0086-571-85803723 85803731 85803732 FAX: 0086-571-85803724

E-mail: sales@csimc-freqcontrol.com thwu@mail.hz.zj.cn





Since: 1999



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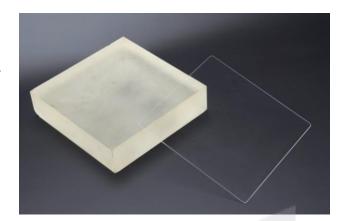
Material included: SCHOTT: Borofloat33/B270/D263/BK7 etc.

CORNING: Eagle XG , Fused Silica 7980/7978/7979 etc.

Feiihua: Fused Silica JGS1/JGS2 & Single quartz etc.



: H-K9L glass/ Soda Lime etc.



### **Process capability:**

Item	Capability

Diameter		5mm - 400mm
Thickness		50μm or more
Dimensional Tolerance		+/- 25μm
Thickness Tolerance		+/- 5μm
Thickness Variation(TTV)		< 2μm
Flatness		1/10 Wave/Inch
Surface Roughness (RMS)		<5Å
Scratch and Dig	CHINA OHABET	10/5
Particle Size	CHINA QUARTZ	T410µM NOLOGY
Bow/Warp		<10µm

### **Application examples:**

**Optical Filters** 



**Bio-Sensors** 



Micro-displays



Military



**MEMS** 



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